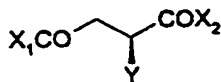




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification: C07C 227/32, 227/08, 229/22, 69/63, 55/40, 309/66, 55/32, 51/363	A1	(11) International Publication Number: WO 00/69808 (43) International Publication Date: 23 November 2000 (23.11.00)
(21) International Application Number: PCT/IT00/00187 (22) International Filing Date: 12 May 2000 (12.05.00) (30) Priority Data: RM99A000310 18 May 1999 (18.05.99) IT RM99A000670 29 October 1999 (29.10.99) IT RM2000A000061 10 February 2000 (10.02.00) IT (71) Applicant (for all designated States except US): SIGMA-TAU INDUSTRIE FARMACEUTICHE RIUNITE S.p.A. [IT/IT]; Viale Shakespeare, 47, I-00144 Roma (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): MELLONI, Piero [IT/IT]; Via Centurelli, 1, I-20091 Bresso (IT). CERRI, Alberto [IT/IT]; Via Monte San Michele, 7, I-20060 Gessate (IT). SANTAGOSTINO, Marco [IT/IT]; Via Mentana, 4, I-20013 Magenta (IT). (74) Agent: SPADARO, Marco; Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Viale Shakespeare, 47, I-00144 Roma (IT).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. In English translation (filed in Italian).

(54) Title: PROCESS FOR PREPARING R-(-)-CARNITINE FROM S-(-)-CHLOROSUCCINIC ACID OR FROM A DERIVATIVE THEREOF



(1)

(57) Abstract

A process for the preparation of L-carnitine inner salt comprising the reduction, with a suitable reducing agent, of a compound of formula (1): where X₁ and X₂, which may be the same or different, are hydroxy, C₁-C₄ alkoxy, phenoxy, halogen, or X₁ and X₂, when taken together are an oxygen atom and the resulting compound is a derivative of succinic anhydride; Y is halogen, the mesyloxy or the tosyloxy group; and subsequent treatment with water, then with a base and then with trimethylamine.